

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A variator of the toroidal-race rolling-traction type comprising:

a rotatably mounted input disc;
an output disc rotatably mounted coaxially with the input disc;
a plurality of rollers transmitting rotation between the input disc and the

output disc;

a plurality of roller carriages, each roller being rotatably mounted on one of the roller carriages, and each roller carriage having a single pivoting joint whereby each roller carriage is capable of three degrees of rotational movement about the single pivoting joint;

a plurality of levers, each connected to the single pivoting joint of a corresponding roller carriage; and

a plurality of actuators, each connected to a corresponding lever for applying a reaction force to the corresponding roller carriages via the single pivoting joint.

2. (Original) A variator as claimed in claim 1, wherein each roller and its associated actuator is connected to a respective lever.

3. (Previously Presented) A variator as claimed in claim 1, comprising a plurality of levers pivotally mounted about a first axis.

4. (Original) A variator as claimed in claim 3, comprising a lever pivotally mounted about a second axis.

5. (Previously Presented) A variator of the toroidal-race rolling-traction type comprising:

a rotatably mounted input disc;
an output disc rotatably mounted coaxially with the input disc;

a plurality of rollers for transmitting rotation between the input disc and the output disc;

a plurality of actuators, each acting upon a respective one of the rollers;

a plurality of levers, each connected to a respective one of the rollers and its associated actuator, the plurality of levers being pivotally mounted about a first axis; and

a lever pivotally mounted about a second axis wherein the second axis is inclined to the first axis.

6. (Previously Presented) A variator as claimed in claim 1, wherein each of the plurality of actuators is mounted to the same side of a plane aligned with and passing through the rotational axis of the discs.

7. (Previously Presented) A variator as claimed in claim 6, wherein each of the actuators is mounted below a horizontal plane aligned with and passing through the rotational axis of the discs.

8. (Previously Presented) A variator as claimed in claim 1, wherein the input and output discs are of different sizes and wherein each of the plurality of actuators is located radially outwardly of a common plane extending parallel to the rotational axis of the input and output discs and tangential to the periphery of the larger of the input disc and output disc.

9. (Original) A variator as claimed in claim 8, wherein the common plane extends substantially horizontally.

10. (Original) A variator as claimed in claim 9, wherein the common plane is tangential to the lowermost point of the larger of the input disc and the output disc.

11. (Previously Presented) A variator as claimed in claim 8, wherein the directions of displacement of the plurality of actuators are substantially parallel.

12. (Previously Presented) A variator as claimed in claim 11, wherein the directions of displacement of the plurality of actuators are perpendicular to the common plane.

13. (Previously Presented) A variator as claimed in claim 1, wherein each of the plurality of actuators comprises a piston reciprocally disposed within a cylinder.

14. (Original) A variator as claimed in claim 13, wherein the longitudinal axes of the cylinders are substantially parallel.

15. (Previously Presented) A variator as claimed in claim 13, wherein the pistons are displaceable by means of hydraulic pressure.

16. (Previously Presented) A variator as claimed in claim 13, wherein the cylinders are disposed in a common cylinder block.

17. (Currently Amended) A variator as claimed in claim 13, wherein each actuator in the plurality of actuators ~~[[are]]~~ is double-acting.

18. (Currently Amended) A variator of the toroidal-race rolling-traction type comprising:

a rotatably mounted input disc;

an output disc rotatably mounted coaxially with the input disc;

a plurality of rollers transmitting rotation between the input disc and the output disc;

a plurality of roller carriages, each roller being rotatably mounted on one of the roller carriages and each roller carriage having a single pivoting joint whereby each roller carriage is capable of three degrees of rotational movement about the single pivoting joint; ~~[[and]]~~

a plurality of actuators, each acting upon the single pivoting joint of the corresponding roller carriage, for applying a reaction force to the corresponding roller carriages;

wherein the input and output discs are of different sizes and wherein each of the actuators is located radially outwardly of a common plane extending parallel to the rotational axis of the input and output discs and tangential to the periphery of the larger of the input disc and output disc.

19. (Currently Amended) A variator as claimed in claim 18, ~~wherein~~ wherein the common plane extends substantially horizontally.

20. (Original) A variator as claimed in claim 19, wherein the common plane is tangential to the lowermost point of the larger of the input disc and the output disc.

21. (Previously Presented) A variator as claimed in claim 18, wherein the directions of displacement of the plurality of actuators are parallel.

22. (Previously Presented) A variator as claimed in claim 18, wherein the directions of displacement of the plurality of actuators are parallel.

23. (Previously Presented) A variator as claimed in claim 18, wherein each actuator in the plurality of actuators comprises a piston reciprocally disposed within a cylinder.

24. (Original) A variator as claimed in claim 23, wherein the longitudinal axes of the cylinders are substantially parallel.

25. (Previously Presented) A variator as claimed in claim 23, wherein the pistons are displaceable by means of hydraulic pressure.

26. (Previously Presented) A variator as claimed in claim 23, wherein the cylinders are disposed in a common cylinder block.

27. (Currently Amended) A variator as claimed in claim 18, wherein each of the plurality of actuators ~~[[are]]~~ is double-acting.

28. (Previously Presented) A variator as claimed in claim 18, further comprising a plurality of levers, each connected to a respective one of the plurality of rollers and its associated actuator.

29. (Previously Presented) A variator as claimed in claim 28, wherein each roller and its associated actuator is connected to a respective lever.

30. (Previously Presented) A variator as claimed in claim 28, comprising a plurality of levers pivotally mounted about a first axis.

31. (Previously Presented) A variator as claimed in claim 30, comprising a lever pivotally mounted about a second axis.

32. (Previously Presented) A variator of the toroidal-race rolling-traction type comprising:

- a rotatably mounted input disc;
- an output disc rotatably mounted coaxially with the input disc;
- a plurality of rollers for transmitting rotation between the input disc and the output disc;
- a plurality of actuators, each acting upon a respective one of the rollers; wherein each of the actuators is located radially outwardly of a common plane extending parallel to the rotational axis of the input and output discs and tangential to the periphery of the larger of the input disc and output disc;
- a plurality of levers, each connected to a respective one of the plurality of rollers and its associated actuator;
- a plurality of levers pivotally mounted about a first axis;
- a lever pivotally mounted about a second axis, wherein the second axis is inclined to the first axis.

33. (Cancelled)

34. (Currently Amended) A variator of the toroidal-race rolling traction type comprising:

a rotatably mounted input disc;

an output disc rotatably mounted coaxially with the input disc;

a plurality of rollers for transmitting rotation between the input disc and the output disc;

a plurality of roller carriages, each roller being rotatably mounted on a respective one of the roller carriages and each roller carriage having a single pivoting joint whereby each roller carriage is capable of three degrees of rotational movement about the single pivoting joint;

a plurality of actuators, each acting upon the pivoting joint of the corresponding roller carriage; and

a plurality of levers, each connected to the single pivoting joint of the corresponding roller carriage and to the corresponding actuator, for applying a reaction force to the corresponding roller carriages.